

DRIVE PIN FOR FASTENING A MATERIAL TO A METAL BASE MEMBER

ABSTRACT OF THE DISCLOSURE

5 A drive pin (20) for the fastening of a material (22) to a  
sheet-metal framing member (24) with an automatic nailer is  
provided. The drive pin (20) has a head (26), a substantially  
cylindrical shank (28) having a base diameter (30) in a range  
of 0.0625 to 0.125 inch, and a ballistic tip (40) configured to  
penetrate the material (22) and the framing member (24) under  
10 force of the automatic nailer. A knurl (42) is formed upon the  
shank (28). The knurl (42) has at least seven and no more than  
fourteen substantially parallel spiral grooves (32) having a  
minor diameter (58) less than the shank base diameter (30).  
Adjacent spiral grooves (32) are separated by substantially  
15 unbroken spiral ridges (34) having a major diameter (62)  
greater than the shank base diameter (30). The spiral grooves  
(32) and ridges (34) together form a plurality of threads (44)  
rolled full upon the shank (28) at an angle (54) of  
substantially  $26 \pm 2$  degrees relative to an axis (46) of the  
20 shank (28).